

Protein Expression Market Report by Product (Reagents and Kits, Service, and Others), Application (Therapeutic, Industrial, Research), End User (Academic Research Institutes, Biotechnology and Pharmaceutical Companies, Contract Research Organizations (CROs)), and Region 2024-2032

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Abstracts

The global protein expression market size reached US\$ 2.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 6.2 Billion by 2032, exhibiting a growth rate (CAGR) of 9.01% during 2024-2032.

Protein expression refers to a biotechnological process, wherein proteins are modified, synthesized and regulated in living organisms. Transcription, translation and post-translational modifications are some of the processes involved in protein expression. It includes various expression systems that are generally derived from bacterial, algal, insect, cell-free, yeast and mammalian cells. Protein expression is widely used to study the presence of one or more proteins in the tissues or cells. It offers several advantages, such as high expression, good stability, fast-breeding, strong anti-pollution ability and easy purification of the product. As a result, it is commonly used by biotechnologists, pharmaceutical companies, contract research organizations (CROs) and academic research institutes for proteomics.

Protein Expression Market Trends:

The increasing demand for therapeutic proteins, such as vaccines, peptide hormones, therapeutic enzymes, cytokines, antibodies, and blood factors, on account of rising prevalence of chronic diseases, especially amongst the geriatric population is creating a positive outlook for the market. In line with this, the widespread product utilization in the

manufacturing of biologics as they play an important role in the treatment process of various health issues is favoring the market growth. Apart from this, various advancements and innovations in mass spectrometry and molecular genetics that assist in accurate mass determination and characterization of proteins, are providing an impetus to the market growth. Additionally, the rising demand for cell-free protein expression due to its ability to express toxic proteins, increase speed and enhanced overall yields of functional, soluble, full-length proteins is positively impacting the market growth. Other factors, including extensive research and development (R&D) activities and increasing product demand from pharmaceutical and biotechnology companies, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global protein expression market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, application and end user.

Breakup by Product:

- Reagents and Kits
- Cell-free Expression
- Bacterial Expression
- Yeast Expression
- Algal Expression
- Insect Expression
- Mammalian Expression
- Others
- Service
- Others

Breakup by Application:

- Therapeutic
- Industrial
- Research

Breakup by End User:

- Academic Research Institutes

Biotechnology and Pharmaceutical Companies Contract Research Organizations (CROs)

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Becton Dickinson and Company, Bioneer Corporation, Bio-Rad Laboratories Inc., Lonza Group AG, Merck KGaA, New England Biolabs, Promega Corporation, Qiagen N.V., Sino Biological Inc., Takara Bio Inc. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report

1. What was the size of the global protein expression market in 2023?
2. What is the expected growth rate of the global protein expression market during 2024-2032?
3. What are the key factors driving the global protein expression market?
4. What has been the impact of COVID-19 on the global protein expression market?
5. What is the breakup of the global protein expression market based on the product?
6. What is the breakup of the global protein expression market based on the application?
7. What is the breakup of the global protein expression market based on the end user?
8. What are the key regions in the global protein expression market?
9. Who are the key players/companies in the global protein expression market?

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